

CLAIMS

1. A downhill ski characterised by comprising a thrust support consisting of a superstructure having a base member, connected to the central region of the ski, and a front prolongation (5,11), the end of which exerts elastically a concentrated
5 downward thrust action on a point (6) in that portion of the ski between the front jaw (P) of the binding and the section (4) where the tip curvature commences, the connection of the end of the said front prolongation (5,11) to said ski being of the type acting as a bilateral support and a hinge of transverse-horizontal axis, able to inhibit mutual movements in a vertical direction, but such as to enable mutual
10 rotation about said transverse-horizontal direction and mutual sliding in a longitudinal direction.
2. A ski as claimed in claim 1, characterised in that the thrust support acts on a point substantially at the centre of that portion between the front jaw (P) of the binding and the section (4) where the tip curvature commences.
- 15 3. A ski as claimed in claim 1, characterised in that the thrust support acts on a point situated in the rear half of that portion between the front jaw (P) of the binding and the section (4) where the tip curvature commences.
4. A ski as claimed in claim 1, characterised in that the base member is split into two half-members (8,9), namely a rear one (9) for merely raising the heel of
20 the binding, and a front one (8) below the front part of the boot.
5. A ski as claimed in claim 1, characterised in that said prolongation (5) and at least the front portion (8) of said base member form a monolithic entity.

6. A ski as claimed in claims 4 and 5, characterised in that said front half-member (8) is hinge-connected to said central region (1) at a point (17) to the rear of the front jaw (P).

7. A ski as claimed in claim 1, characterised in that said connection (6)
5 consists of a hinge slotted in a horizontal plane.

8. A ski as claimed in claim 4, characterised in that said prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from said hinge and acts as a reacting element on the base member by means of a
10 counteracting element (14).

9. A ski as claimed in claim 4, characterised in that such prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from said hinge and acts as a reacting element on the ski by means of a counteracting
15 element (16).

10. A ski as claimed in claim 4, characterised in that such prolongation (11) is independent, is connected at its rear to the front portion of said base member by a hinge (12) and is provided with a retro-prolongation (13) which extends from said hinge and acts as a reacting element on the base member by means of a first
20 counteracting element (14) and on the ski by means of a second counteracting element (16).

11. A ski as claimed in one or more of claims from 8 to 10 characterised in that at least one counteracting element (14,16) is of adjustable feed.

12. A ski as claimed in claim 11, characterised in that to at least one reaction element a substantially elastic insert (15) is associated.

13. A ski as claimed in claim 12 characterised in that the insert (15) is formed of high-resistance rubber.